

ABSTRACT OF THE DISCLOSURE

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An emission spectroscopic processing apparatus includes a spectroscope for spectrally separating input light emitted from a process unit into component spectra, a light receiving unit including a series of light receiving elements for detecting light quantities of the component spectra on a wavelength basis, a first signal hold unit for holding sequentially each of detection signals outputted from a subset of adjacent light receiving elements contained in series of light receiving elements during a first period, an adder unit for adding together the detection signals of adjacent light receiving elements of the light receiving unit inclusive of the held detection signals of the subset of adjacent light receiving elements, a second signal hold unit for holding sequentially sum outputs of the adder unit, and a signal processing unit for determining a state of the process unit on the basis of the output of the second signal hold unit.